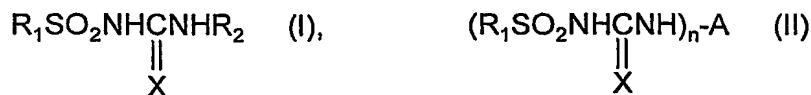


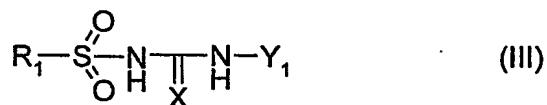
Claims

1. Composition comprising

- a) a colour former compound,
- b) a developer, which is different from the stabilizer used as component c),
- c) a stabilizer, selected from the group consisting of compounds having the formulae I, II and III,



and



wherein

R_1 stands for unsubstituted or substituted phenyl or naphthyl, $\text{C}_1\text{-C}_{20}$ alkyl, $\text{C}_3\text{-C}_{10}$ cycloalkyl, wherein the carbon chains of the alkyl (i.e. at least two carbon atoms) and cycloalkyl groups may be interrupted by $-\text{O}-$, $-\text{S}-$, $-\text{NH-}$ radicals, or unsubstituted or substituted aralkyl having from seven to twelve carbon atoms,

R_2 stands for hydrogen, unsubstituted or substituted phenyl, naphthyl, $\text{C}_1\text{-C}_{20}$ alkyl, unsubstituted or substituted aralkyl having from seven to twelve carbon atoms, or R_2 stands for $-\text{R}_3\text{-B-}\text{R}_4$, in which R_3 stands for phenylene or naphthylene, in particular for o-, m- or p-phenylene, preferably p-phenylene, or 1,2; 2,3; 1,4 or 1,5-naphthylene, preferably 1,5-naphthylene, and wherein B stands for $-\text{O-SO}_2-$, $-\text{SO}_2\text{-O-}$, $-\text{NH-SO}_2-$, $-\text{SO}_2\text{-NH-}$, $-\text{S-SO}_2-$, $-\text{O-CO-}$, $-\text{O-CO-NH-}$, $-\text{NH-CO-}$, $-\text{NH-CO-O-}$, $-\text{S-CO-NH-}$, $-\text{S-CS-NH-}$, $-\text{CO-NH-SO}_2-$, $-\text{O-CO-}$, $-\text{NH-SO}_2-$, $-\text{NH=CH-}$, $-\text{CO-NH-CO-}$, $-\text{S-}$, $-\text{CO-}$, $-\text{O-}$, $-\text{SO}_2\text{-NH-CO-}$, $-\text{O-CO-O-}$, $-\text{CH}_2-$, $-\text{CH}_2\text{CH}_2-$, $-\text{SO}_2-$, $-\text{O-PO-(OR}_4)_2-$, $-\text{CONH-}$ and $-\text{COO-}$, preferably $-\text{O-SO}_2-$, $-\text{SO}_2\text{-O-}$, $-\text{SO}_2\text{-NH-}$, $-\text{S-SO}_2-$, $-\text{O-CO-}$, $-\text{SO}_2-$, $-\text{CH}_2-$, $-\text{O-CO-NH-}$, $-\text{CONH-}$, $-\text{O-}$ and $-\text{COO-}$, more preferably $-\text{O-SO}_2-$, $-\text{SO}_2\text{-O-}$, $-\text{O-}$ and $-\text{COO-}$, and R_4 stands for hydrogen, $\text{C}_6\text{-C}_{10}$ aryl, preferably phenyl or naphthyl which can be unsubstituted or substituted one to three times by, for example, $\text{C}_1\text{-C}_8$ alkyl, halogen-substituted $\text{C}_1\text{-C}_8$ alkyl, $\text{C}_1\text{-C}_8$ alkoxy-substituted $\text{C}_1\text{-C}_8$ alkyl, $\text{C}_1\text{-C}_8$ alkoxy, halogen-substituted $\text{C}_1\text{-C}_8$ alkoxy or halogen, preferred $\text{C}_1\text{-C}_4$ alkyl and $\text{C}_1\text{-C}_4$ alkoxy, preferred substituents are $\text{C}_1\text{-}$

C_4 alkyl and halogen, in particular preferred are phenyl which is unsubstituted or substituted by C_1 - C_8 alkyl, halogen-substituted C_1 - C_8 alkyl, C_1 - C_8 alkoxy-substituted C_1 - C_8 alkyl, C_1 - C_8 alkoxy, halogen-substituted C_1 - C_8 alkoxy or halogen, and unsubstituted naphthyl, more preferred are phenyl which is unsubstituted or substituted by C_1 - C_4 alkyl or halogen, and naphthyl, especially phenyl which is unsubstituted or substituted by C_1 - C_4 alkyl, benzyl, unsubstituted, preferred, or substituted one to three times by C_1 - C_8 alkyl, halogen-substituted C_1 - C_8 alkyl, C_1 - C_8 alkoxy-substituted C_1 - C_8 alkyl, C_1 - C_8 alkoxy, halogen-substituted C_1 - C_8 alkoxy or halogen, preferred is unsubstituted benzyl, or C_1 - C_{20} alkyl, preferably C_1 - C_8 alkyl, more preferably C_1 - C_6 alkyl, most preferred C_1 - C_4 alkyl, which can be unsubstituted, preferred, or substituted one to three times by, for example, C_1 - C_8 alkoxy, halogen, preferred halogen-substituted C_1 - C_6 alkyl, more preferred halogen-substituted C_1 - C_4 alkyl, phenyl or naphthyl, preferred phenyl-substituted C_1 - C_6 alkyl, or naphthyl-substituted C_1 - C_6 alkyl.

A represents a multivalent group having a valency of 2, 3 or 4, n represents an integer of 2, 3 or 4, and X stands for oxygen or sulphur,

Y_1 stands for a heterocyclic ring having from two to seven carbon atoms and from 1 to three atoms selected from the group consisting of oxygen, nitrogen and sulphur, which can be substituted one to three times with unsubstituted or substituted phenyl, C_1 - C_{20} alkyl, C_1 - C_8 alkoxy, halogen or $-SO_2R_6$, R_6 stands for phenyl, which may be substituted one to three times with C_1 - C_4 alkyl, wherein the total number of carbon, oxygen, sulphur and nitrogen atoms of the heterocyclic ring is from 5 to 9,

and wherein the amount of the stabilizer is less than 5% by weight, based on the total weight of the composition.

2. Heat-sensitive recording material comprising:

a substrate sheet, and

a heat-sensitive coloured image-forming layer formed on the surface of the substrate sheet and comprising the composition of claim 1.

3. Use the composition of claim 1 as heat-sensitive coloured image-forming layer for the manufacture of a heat-sensitive recording material.